

WHAT IS CLAIMED IS:

1. An engine throttle body comprising:
a valve flap disposed in a main passage through which air passes to be supplied
to a combustion chamber;

5 an Exhaust Gas Recirculation (EGR) gas inflow passage; and
gas mixing means for inducing EGR gas at a downstream position in relation to
the valve flap from said EGR gas inflow passage to said main passage in a substantially
perpendicular direction to a rotational axis of said valve flap.

2. The body as defined in claim 1, wherein said gas mixing means
10 comprises:

a cylindrical barrier wall that forms one portion of said main passage and at least
partially isolates said main passage from a mixture reserve space encompassing said
main passage and being connected to said EGR gas inflow passage; and

a cut-out part formed at said cylindrical barrier wall for allowing said main
15 passage, which is substantially perpendicular to the rotational axis of said valve flap, to
communicate with said mixture reserve space.

3. The body as defined in claim 2, wherein said EGR gas inflow passage
is formed substantially parallel to the rotational axis of said valve flap and substantially
perpendicular to said main passage, and said cut-out part at said cylindrical barrier wall
20 is formed around the entire circumference of said cylindrical barrier wall except for a
portion adjacent to said EGR gas inflow passage.

4. The body as defined in claim 2, wherein said cylindrical barrier wall is
caved in from a surface of the combustion chamber side at the throttle body.